

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP03/02706

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B23/03 G11B33/04 G11B33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 840 308 A (SONY CORP) 6 May 1998 (1998-05-06) column 8, line 4 -column 16, line 57; figures 1-4,15-20 ---	1,4,5,7
X	US 4 185 313 A (DUFF JAMES A ET AL) 22 January 1980 (1980-01-22) the whole document ---	1,2,4-6
X	GB 2 037 475 A (DATA PACKAGING CORP) 9 July 1980 (1980-07-09) the whole document ---	1-6
X	DE 26 44 894 A (JANSEN HEIKO) 6 April 1978 (1978-04-06) the whole document -----	1,2,4-6



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents; such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

6 October 2003

Date of mailing of the international search report

16/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Moje, A

INTERNATIONAL SEARCH REPORT

International Publication No
PCT/JP03/02706

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0840308	A	06-05-1998	JP 9091777 A	04-04-1997
			EP 0840308 A1	06-05-1998
			US 6157610 A	05-12-2000
			WO 9704452 A1	06-02-1997
			US 2003021213 A1	30-01-2003
			US 6483796 B1	19-11-2002
<hr/>				
US 4185313	A	22-01-1980	AU 527039 B2	10-02-1983
			AU 5083379 A	03-04-1980
			CA 1121051 A1	30-03-1982
<hr/>				
GB 2037475	A	09-07-1980	DE 2903348 A1	26-06-1980
			FR 2444315 A1	11-07-1980
			IE 47908 B1	25-07-1984
			JP 55080859 A	18-06-1980
			US 4355340 A	19-10-1982
<hr/>				
DE 2644894	A	06-04-1978	DE 2644894 A1	06-04-1978
<hr/>				